

| L Number | Hits  | Search Text   | DB                                  | Time stamp       |
|----------|-------|---|-------------------------------------|------------------|
| -        | 26    | (annealing adj point) same (melting adj point)  | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2003/11/23 16:17 |
| -        | 16285 | (glass adj3 (substrate support)) and laser  | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/09 14:11 |
| -        | 0     | ((glass adj3 (substrate support)) and laser) and (soft adj silica)  | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/09 14:12 |
| -        | 1128  | ((glass adj3 (substrate support)) and laser) and (soft)   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/09 14:11 |
| -        | 43    | ((glass adj3 (substrate support)) and laser) and (annealing adj point)  | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/09 14:12 |
| -        | 472   | ((glass adj3 (substrate support)) and laser) and (annealing adj temperature)  | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/09 14:13 |
| -        | 503   | ((glass adj3 (substrate support)) and laser) and (annealing adj point) (((glass adj3 (substrate support)) and laser) and (annealing adj temperature))   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/09 14:13 |
| -        | 85    | (((glass adj3 (substrate support)) and laser) and (annealing adj point)) (((glass adj3 (substrate support)) and laser) and (annealing adj temperature))) and (scan (scan adj path))   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/09 14:13 |
| -        | 50    | refractive adj index) and (((glass adj3 (substrate support)) and laser) and (annealing adj point)) (((glass adj3 (substrate support)) and laser) and (annealing adj temperature)))  | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/09 14:14 |
| -        | 5     | (("5157674") or ("5253198") or ("5325324") or ("5761111") or ("5289407")).PN.   | USPAT; US-PPGPUB                    | 2002/05/13 10:25 |
| -        | 892   | BORRELLI BORRELLI-N BORRELLI-NICHOLAS-F<br>BORRELLI-NICHOLAS-FRANCIS<br>BORRELLI-NICHOLAS-FRANCIS-CORN<br>BORRELLI-NICHOLAS-F-CORNING-IN BORRELLI-N-F<br>SMITH-CHARLENE SMITH-CHARLENE-M  | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 11:06 |
| -        | 167   | (BORRELLI BORRELLI-N BORRELLI-NICHOLAS-F<br>BORRELLI-NICHOLAS-FRANCIS<br>BORRELLI-NICHOLAS-FRANCIS-CORN<br>BORRELLI-NICHOLAS-F-CORNING-IN BORRELLI-N-F<br>SMITH-CHARLENE SMITH-CHARLENE-M) and (refractive adj index)   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 11:10 |
| -        | 151   | ((BORRELLI BORRELLI-N BORRELLI-NICHOLAS-F<br>BORRELLI-NICHOLAS-FRANCIS<br>BORRELLI-NICHOLAS-FRANCIS-CORN<br>BORRELLI-NICHOLAS-F-CORNING-IN BORRELLI-N-F<br>SMITH-CHARLENE SMITH-CHARLENE-M) and (refractive adj index)) and (glass silica (doped adj silica) (doped-silica))                                  | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 11:09 |
| -        | 49    | ((BORRELLI BORRELLI-N BORRELLI-NICHOLAS-F<br>BORRELLI-NICHOLAS-FRANCIS<br>BORRELLI-NICHOLAS-FRANCIS-CORN<br>BORRELLI-NICHOLAS-F-CORNING-IN BORRELLI-N-F<br>SMITH-CHARLENE SMITH-CHARLENE-M) and (refractive adj index)) and (glass silica (doped adj silica) (doped-silica))) AND (ANNEAL ANNEALING ANNEALED) | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 11:09 |

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|  |  | 151  | ((BORRELLI BORRELLI-N BORRELLI-NICHOLAS-F BORRELLI-NICHOLAS-FRANCIS BORRELLI-NICHOLAS-FRANCIS-CORN BORRELLI-NICHOLAS-F-CORNING-IN BORRELLI-N-F SMITH-CHARLENE SMITH-CHARLENE-M) and (refractive adj index) and (glass silica (doped adj silica) (doped-silica) \$8SILICATE)   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 11:10 |
|  |  | 160  | ((BORRELLI BORRELLI-N BORRELLI-NICHOLAS-F BORRELLI-NICHOLAS-FRANCIS BORRELLI-NICHOLAS-FRANCIS-CORN BORRELLI-NICHOLAS-F-CORNING-IN BORRELLI-N-F SMITH-CHARLENE SMITH-CHARLENE-M) AND (ANNEAL ANNEALING ANNEALED))  | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 11:13 |
|  |  | 52   | ((BORRELLI BORRELLI-N BORRELLI-NICHOLAS-F BORRELLI-NICHOLAS-FRANCIS BORRELLI-NICHOLAS-FRANCIS-CORN BORRELLI-NICHOLAS-F-CORNING-IN BORRELLI-N-F SMITH-CHARLENE SMITH-CHARLENE-M) AND (ANNEAL ANNEALING ANNEALED)) and (refractive adj index)   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 11:11 |
|  |  | 54   | ((BORRELLI BORRELLI-N BORRELLI-NICHOLAS-F BORRELLI-NICHOLAS-FRANCIS BORRELLI-NICHOLAS-FRANCIS-CORN BORRELLI-NICHOLAS-F-CORNING-IN BORRELLI-N-F SMITH-CHARLENE SMITH-CHARLENE-M) AND ((ANNEAL ANNEALING ANNEALED) ADJ (POINT TEMPERATURE))   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 11:15 |
|  |  | 236  | light adj (guide guiding) adj structure   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 15:26 |
|  |  | 130  | ((((glass adj3 (substrate support) and laser) and (annealing adj point)) (((glass adj3 (substrate support) and laser) and (annealing adj temperature))) and (scan (scan adj path))) ((refractive adj index) and (((glass adj3 (substrate support) and laser) and (annealing adj point)) (((glass adj3 (substrate support) and laser) and (annealing adj temperature))))   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 15:26 |
|  |  | 125  | ((((((glass adj3 (substrate support) and laser) and (annealing adj point)) (((glass adj3 (substrate support) and laser) and (annealing adj temperature))) and (scan (scan adj path))) ((refractive adj index) and (((glass adj3 (substrate support) and laser) and (annealing adj point)) (((glass adj3 (substrate support) and laser) and (annealing adj temperature))))))) not ((BORRELLI BORRELLI-N BORRELLI-NICHOLAS-F BORRELLI-NICHOLAS-FRANCIS BORRELLI-NICHOLAS-FRANCIS-CORN BORRELLI-NICHOLAS-F-CORNING-IN BORRELLI-N-F SMITH-CHARLENE SMITH-CHARLENE-M) AND ((ANNEAL ANNEALING ANNEALED) ADJ (POINT TEMPERATURE))) | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 14:07 |
|  |  | 0    | (light adj (guide guiding) adj structure) and (((((glass adj3 (substrate support) and laser) and (annealing adj point)) (((glass adj3 (substrate support) and laser) and (annealing adj temperature))) and (scan (scan adj path))) ((refractive adj index) and (((glass adj3 (substrate support) and laser) and (annealing adj point)) (((glass adj3 (substrate support) and laser) and (annealing adj temperature)))))))   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 14:07 |
|  |  | 1283 | (annealing adj point) (annealing adj temperature) and (refractive adj index)  | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 14:09 |

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|  | 54   | (((((glass adj3 (substrate support)) and laser) and (annealing adj point)) ((glass adj3 (substrate support)) and laser) and (annealing adj temperature))) and (scan (scan adj path)) ((refractive adj index) and (((glass adj3 (substrate support)) and laser) and (annealing adj point)) ((glass adj3 (substrate support)) and laser) and (annealing adj temperature)))) not ((BORRELLI BORRELLI-N BORRELLI-NICHOLAS-F BORRELLI-NICHOLAS-FRANCIS BORRELLI-NICHOLAS-FRANCIS-CORN BORRELLI-NICHOLAS-F-CORNING-IN BORRELLI-N-F SMITH-CHARLENE SMITH-CHARLENE-M) AND ((ANNEAL ANNEALING ANNEALED) ADJ (POINT TEMPERATURE))) and ((annealing adj point) (annealing adj temperature) and (refractive adj index))   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 14:13 |
|  | 36   | (light adj (guide guiding) adj structure) and (laser) and ((bulk adj glass) (glass) (silica)) and (writ\$3 expos\$3)  | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 15:50 |
|  | 36   | ((light adj (guide guiding) adj structure) and (laser) and ((bulk adj glass) (glass) (silica)) and (writ\$3 expos\$3) ) not ((((((glass adj3 (substrate support)) and laser) and (annealing adj point)) ((glass adj3 (substrate support)) and laser) and (annealing adj temperature))) and (scan (scan adj path)) ((refractive adj index) and (((glass adj3 (substrate support)) and laser) and (annealing adj point)) ((glass adj3 (substrate support)) and laser) and (annealing adj temperature)))) not ((BORRELLI BORRELLI-N BORRELLI-NICHOLAS-F BORRELLI-NICHOLAS-FRANCIS BORRELLI-NICHOLAS-FRANCIS-CORN BORRELLI-NICHOLAS-F-CORNING-IN BORRELLI-N-F SMITH-CHARLENE SMITH-CHARLENE-M) AND ((ANNEAL ANNEALING ANNEALED) ADJ (POINT TEMPERATURE))) and ((annealing adj point) (annealing adj temperature) and (refractive adj index))) | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 17:07 |
|  | 64   | soft adj silica   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 16:16 |
|  | 12   | (("4270130") or ("5178978") or ("5675691") or ("5637933")).PN.  | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/13 17:07 |
|  | 4    | (window adj glass) same (anneal\$3 adj (point temperature))   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/14 09:47 |
|  | 1043 | collimat\$4 same pulsed   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/14 09:52 |
|  | 0    | (light adj guiding adj structure) and (bulk adj glass adj (support substrate)) and (silcia) and (pulsed adj laser) and (refractive adj index)   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/14 10:40 |
|  | 1    | (light adj guiding adj structure) and (bulk adj glass adj (support substrate)) and (silica) and (pulsed adj laser) and (refractive adj index)   | USPAT; US-PPGPUB; EPO; JPO; DERWENT | 2002/05/14 11:02 |
|  | 0    | 200109899.URPN.   | USPAT                               | 2002/05/14 10:51 |

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|  | 2    | (bulk adj glass adj (support substrate)) and (pulsed adj laser) and (refractive adj index)   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/05/14 11:05 |
|  | 0    | 200109899.URPN.  | USPAT                              | 2002/05/14 11:04 |
|  | 0    | 200144871.URPN.  | USPAT                              | 2002/05/14 11:04 |
|  | 90   | (glass adj (support substrate)) and (pulsed adj laser) and (refractive adj index)  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/05/14 12:20 |
|  | 324  | (soda adj lime) same (phosphorate borate fluorate chlorate sulfate)  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/05/14 12:23 |
|  | 0    | 5978538.URPN.  | USPAT                              | 2002/05/14 12:25 |
|  | 6    | ("3542536"   "4022602"   "4090776"   "4710605"   "5136677"   "5620496").PN.  | USPAT                              | 2002/05/14 12:25 |
|  | 3508 | waveguide same (y-coupler (directional adj coupler) (Mach-zehnder adj device) (loop adj mirror) (demux adj coupler) (star adj coupler) (Er-doped adj4 amplifier))                      | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/05/16 10:12 |
|  | 2826 | waveguide same (diffraction adj grating)   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/05/16 10:40 |
|  | 1011 | (waveguide same (y-coupler (directional adj coupler) (Mach-zehnder adj device) (loop adj mirror) (demux adj coupler) (star adj coupler) (Er-doped adj4 amplifier))) and (silica glass) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/05/16 10:40 |
|  | 612  | (waveguide same (diffraction adj grating)) and (silica glass)  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/05/16 10:42 |
|  | 1604 | (peak adj intensity) same (laser beam)   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/11/18 12:16 |
|  | 0    | ((peak adj intensity) same (laser beam)) and (wcm2)  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/11/18 12:16 |
|  | 53   | ((peak adj intensity) same (laser beam)) same focus  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/11/18 12:16 |
|  | 308  | (peak adj intensity) same (laser adj beam)   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/11/18 12:16 |
|  | 12   | ((peak adj intensity) same (laser adj beam)) SAME FOCUS  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:26 |
|  | 322  | ((peak adj intensity) same (laser adj beam))   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:57 |
|  | 1151 | "W/cm2"  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:30 |
|  | 2    | ((peak adj intensity) same (laser adj beam)) AND "W/cm2"   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:38 |
|  | 1924 | (POWER ADJ DENSITY) SAME (LASER ADJ BEAM)  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:37 |

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|  | 2226  | ((peak adj intensity) same (laser adj beam)) ) ((POWER ADJ DENSITY) SAME (LASER ADJ BEAM))   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:37 |
|  | 39    | (((peak adj intensity) same (laser adj beam)) ) ((POWER ADJ DENSITY) SAME (LASER ADJ BEAM))) AND "W/cm2"   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:38 |
|  | 37    | (((peak adj intensity) same (laser adj beam)) ) ((POWER ADJ DENSITY) SAME (LASER ADJ BEAM))) AND "W/cm2" NOT (((peak adj intensity) same (laser adj beam)) ) AND "W/cm2"   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:44 |
|  | 136   | MIURA-KIYOTAKA MIURA-KIYOTOAKA<br>DAVIS-KENNETH-M DAVIS-KENNETH-MILES<br>DAVIS-KENNETH-MORGAN HIRAO-KAZUYOSHI<br>HIRAO-KAZUYUKI  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:49 |
|  | 1872  | "WATTS/CM.SUP.2"   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:49 |
|  | 5234  | "W/CM.SUP.2"   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:49 |
|  | 1646  | "W/?M.SUP.2"   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:50 |
|  | 278   | "w/?M2"  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:50 |
|  | 1486  | W/\$2M2  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:51 |
|  | 9758  | "W/cm2" "WATTS/CM.SUP.2" "W/CM.SUP.2"<br>"W/?M.SUP.2" "w/?M2" W/\$2M2  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:51 |
|  | 10047 | ((peak adj intensity) same (laser adj beam)) ) ("W/cm2" "WATTS/CM.SUP.2"<br>"W/CM.SUP.2" "W/?M.SUP.2" "w/?M2" W/\$2M2)   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:52 |
|  | 361   | (((peak adj intensity) same (laser adj beam)) ) ((POWER ADJ DENSITY) SAME (LASER ADJ BEAM))) AND ("W/cm2" "WATTS/CM.SUP.2"<br>"W/CM.SUP.2" "W/?M.SUP.2" "w/?M2" W/\$2M2)   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 10:00 |
|  | 3     | (((peak adj intensity) same (laser adj beam)) ) ((POWER ADJ DENSITY) SAME (LASER ADJ BEAM))) AND ("W/cm2" "WATTS/CM.SUP.2"<br>"W/CM.SUP.2" "W/?M.SUP.2" "w/?M2" W/\$2M2))<br>AND (MIURA-KIYOTAKA MIURA-KIYOTOAKA<br>DAVIS-KENNETH-M DAVIS-KENNETH-MILES<br>DAVIS-KENNETH-MORGAN HIRAO-KAZUYOSHI<br>HIRAO-KAZUYUKI) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 10:00 |
|  | 14    | ((peak adj intensity) same (laser adj beam))<br>SAME FOCUS   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:57 |
|  | 36    | ((peak adj intensity) same (laser adj beam))<br>SAME (FOCUS FOCAL)   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:57 |
|  | 4     | ((peak adj intensity) same (laser adj beam)) SAME (FOCUS FOCAL)) AND (((peak adj intensity) same (laser adj beam)) ) ((POWER ADJ DENSITY) SAME (LASER ADJ BEAM))) AND ("W/cm2" "WATTS/CM.SUP.2" "W/CM.SUP.2"<br>"W/?M.SUP.2" "w/?M2" W/\$2M2))   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 09:58 |

|  |    |  |                                    |                  |
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|  |    | 172 (((((peak adj intensity) same (laser adj beam)) ) ((POWER ADJ DENSITY) SAME (LASER ADJ BEAM)) ) AND ("W/cm2" "WATTS/CM.SUP.2" "W/CM.SUP.2" "W/?M.SUP.2" "w/?M2" W/\$2M2)) AND GLASS                                | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 10:03 |
|  | 22 | ((((((peak adj intensity) same (laser adj beam)) ) ((POWER ADJ DENSITY) SAME (LASER ADJ BEAM)) ) AND ("W/cm2" "WATTS/CM.SUP.2" "W/CM.SUP.2" "W/?M.SUP.2" "w/?M2" W/\$2M2)) AND GLASS) AND (WAVEGUIDE (WAVE ADJ GUIDE)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 10:22 |
|  | 0  | "1014" NEAR ("W/cm2" "WATTS/CM.SUP.2" "W/CM.SUP.2" "W/?M.SUP.2" "w/?M2" W/\$2M2)   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 10:22 |
|  | 0  | "1014" NEAR ("W/cm2" "WATTS/CM.SUP.2" "W/CM.SUP.2" "W/?M.SUP.2" "w/?M2" W/\$2M2)   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 10:22 |
|  | 0  | "10.SUB.14" NEAR ("W/cm2" "WATTS/CM.SUP.2" "W/CM.SUP.2" "W/?M.SUP.2" "w/?M2" W/\$2M2)  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 10:23 |
|  | 22 | "10.SUB.14" NEAR ("W/cm2" "WATTS/CM.SUP.2" "W/CM.SUP.2" "W/?M.SUP.2" "w/?M2" W/\$2M2)  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/02/03 10:23 |
|  | 1  | ("5978538").PN.  | USPAT; US-PGPUB                    | 2003/11/23 16:20 |
|  | 0  | 09954500.an.   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/11/23 16:20 |
|  | 3  | ("9954500").PN.  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/11/23 16:22 |
|  | 3  | ("20020076655").PN.  | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/11/23 16:22 |
|  | 8  | ep-569182-\$.did. wo-9316403-\$.did.<br>wo-9732821-\$.did. jp-11255536-\$.did.   | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/11/23 16:41 |